Anh Hoang Nguyen's Resume

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# Introduction

I actively work on modern web applications, APIs, frameworks and machine learning research projects in natural language processing (NLP) and computer vision (CV).

# Professional Experience

## Software Developer — Internship (1/2023 — 5/2023)

[Nuance Communications](https://nuance.com/) + [Microsoft](https://microsoft.com/), Montréal, QC.

AI-backed solutions in healthcare and customer service industry.

Developed backend API, microservices platform, and deployed using Kubernetes and Helm.

Implemented security enhancements for service-to-service communications across clusters.

Automated VM patching process with ansible and cronjobs.

## Research Assistant in Software Development and Platform Engineering — Contract, Part-time (9/2023 — TBD)

[CERC Next-Generation Cities,](https://www.concordia.ca/research/chairs/smart-cities.html) Montréal, QC.

Smart, Sustainable and Resilient Communities and Cities.

Research and build information system platforms across software product lifecycle.

Develop Big Data operational pipelines, CI/CD solutions, and monitoring capabilities. Full-stack Developer — MITACS Internship (In progress, 2023-2024)

[SimWell Inc.,](https://simwell.io/) Montréal, QC.

Digital twin simulations and custom supply chain solutions.

Architect, develop, and deploy distributed front-end application for managing simulation models and backend API for manipulating model database.

Stack: Python Django, React JavaScript/TypeScript, and others TBD.

## Software Developer in SCMT/DevOps — Internship (5/2022 — 9/2022)

Hardware and software in physical security, access control, and unified security center.

[Genetec Inc., Saint-Laurent, QC.](https://genetec.com/)

Completed 2 projects involving migration to on-premise Docker container cluster.

Created and maintained software build/release pipelines for web app, native Windows, native Linux. Research Assistant — Casual (1/2021 — now)

[SAC Research Group, Concordia University.](https://users.encs.concordia.ca/~sac)

Evaluated MLaaS platforms, developed assessment framework, and contributed to research on explainable AI (XAI).

Replicated experiments, ran NLP models for classification on non-Latin datasets, and maintained group's website.

## Full-Stack Developer — Contract (1/2021 — now)

[Inertial Sensing Lab, Montreal, QC.](https://islab.ca/)

Built and maintained project website, including architecture, UI/UX design, web hosting, networking, security, and IAM.

## IT Technician L2 — Part-time (3/2021 — now)

[Academic IT Services, Concordia University.](https://www.concordia.ca/ginacody/aits.html)

Provided frontline support, investigated complex issues, suggested process improvements, and maintained lab functionality across Windows, Linux, and macOS platforms.

Contributed to high performance compute cluster Speed. IT Specialist — Internship (8/2021 — 12/2021)

[Genetec Inc., Saint-Laurent, QC.](https://genetec.com/)

Performed infra and workflow improvements, tested hardware/software compatibility, managed AD/Endpoint, and utilized PowerShell/bash scripting.

# Notable Projects

Portfolio Site - [https://aaanh.ca](https://aaanh.ca/)

GPT Web Client - [https://gpt-demo.aaanh.app](https://gpt-demo.aaanh.app/)

Script Convenience Store - [https://aaanh.app](https://aaanh.app/)

NAG-DevOps/speed-hpc - <https://github.com/NAG-DevOps/speed-hpc>

Personal Photo Reels - [https://photos.aaanh.ca](https://photos.aaanh.ca/)

Personal URL Shortener - [https://s.aaanh.ca](https://s.aaanh.ca/)

[Data Object Parse and Meaningful Graph Traversal - https://github.com/aaanh/meaningful-graphtraversal.git](https://github.com/aaanh/meaningful-graph-traversal.git)

# Volunteering

VP Technology @ [Gina Cody School Entrepreneurship Society](https://gcesconcordia.com/) (2023 — 2024) Photographer @ [HackConcordia](https://hackconcordia.io/) (ConUHack VII, 2023)

# Education

Bachelor of Engineering (2020 — 2024) @ Concordia University, Montréal, QC.

DEC in Applied Sciences (2017 — 2020) @ John Abbott College, Ste-Anne-de-Bellevue, QC.